

Figure 1

2511 TTTTCTTTTCTTCATACATCCCACTGCGATGGCTAGCTGAATAAAGGAAAGACACAGAAAGGGGCTGTGGTCTCTTCTTGGTTGATGCTGCCATGTAAGCTGGACTCTCTGGACTCT
436 F V L F H K I P L D G

3631 GTTGGCTTATCCCGGGAATGCTGCTTATCTGGGCTTTTCTGCTAGATGTGGGCGTGTTTGGAGGCTGTACTATATGAAGCTGCATATACTGTGAGCTGTGATTTGGGGAACCAATG
3751 CAGAGCTAATCTCAGGCACTAAGCAAGCACTCAAGAAACATGTTAAATTATGCTCTCTCTTACAGTACTTCAAATACAAAAGTGAATGAAATGCCATTGCTGTCTCTCT

[illegible]

Figure 4

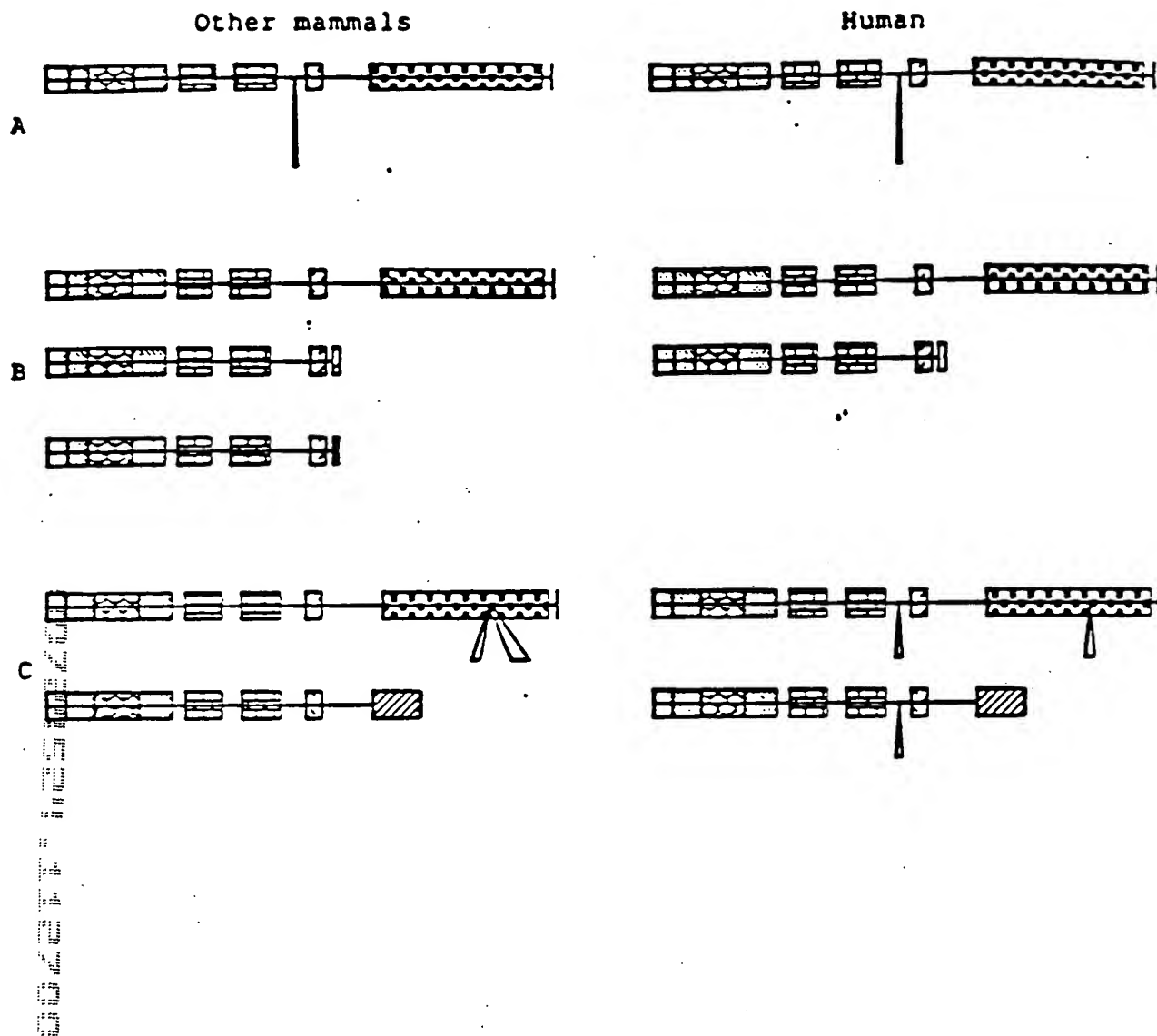
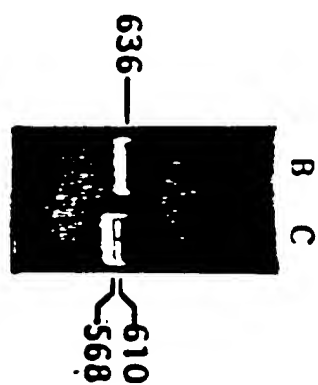


Figure 5



00224544-44200

Figure 6

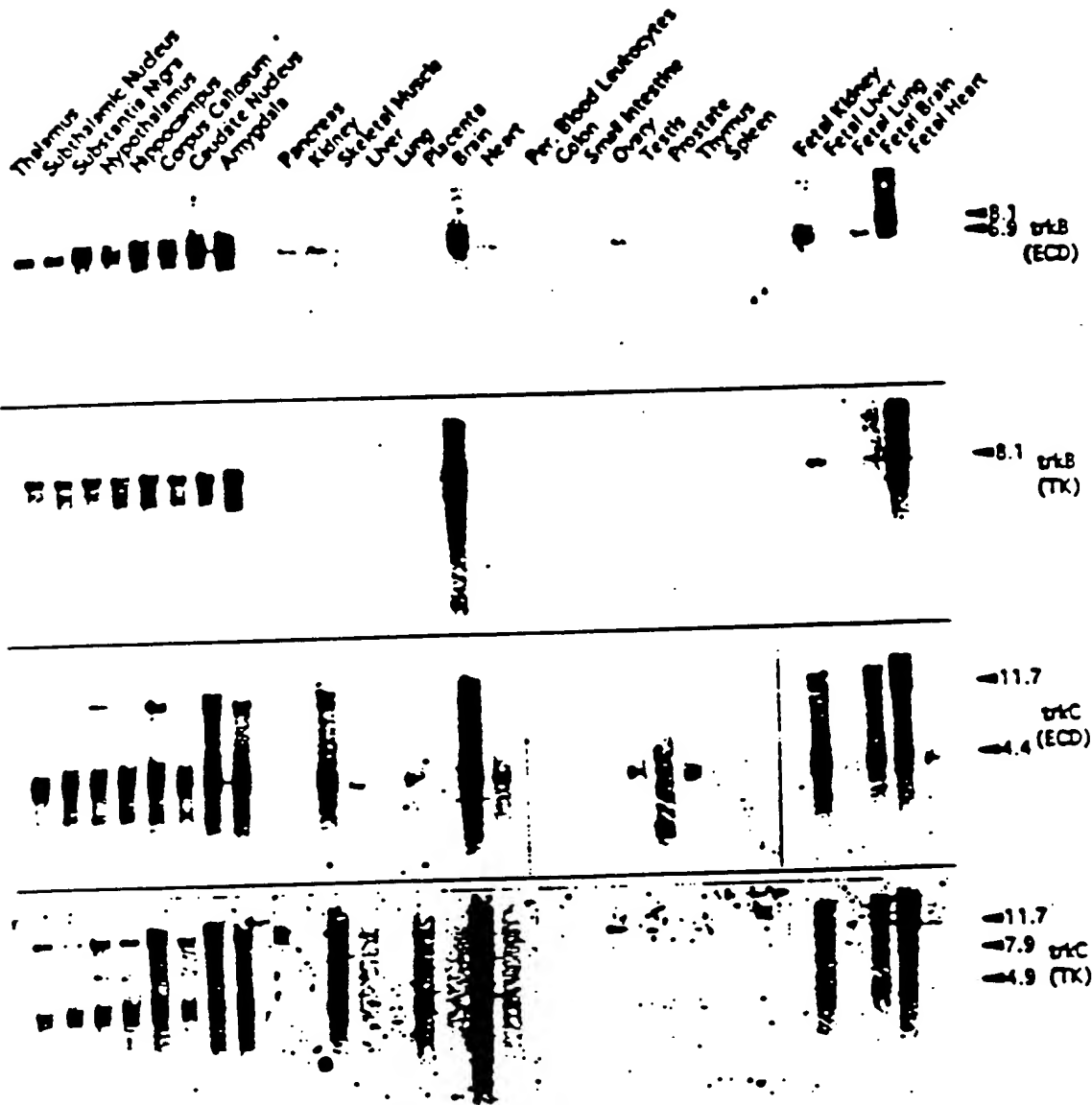
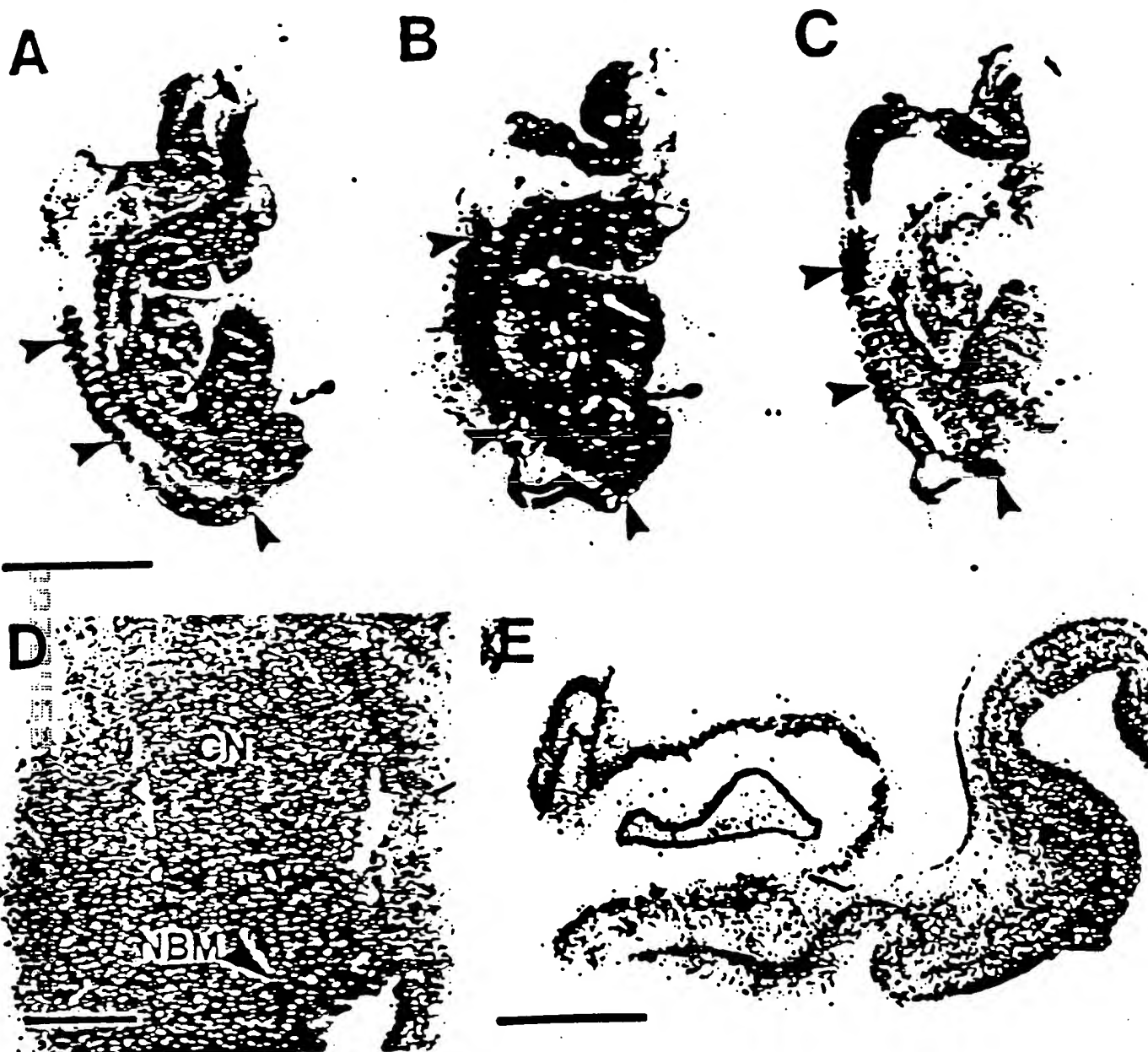


Figure 7



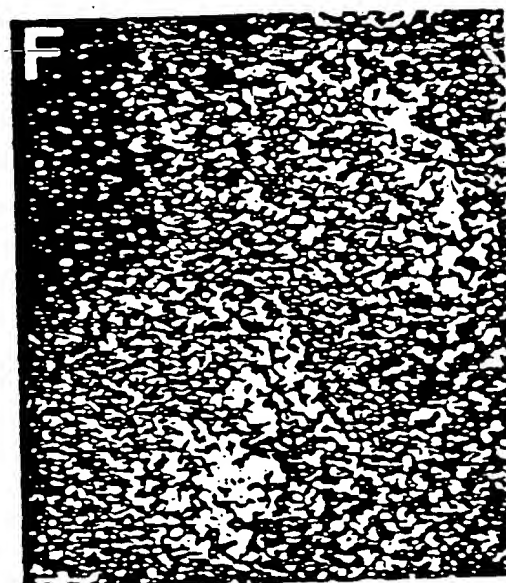
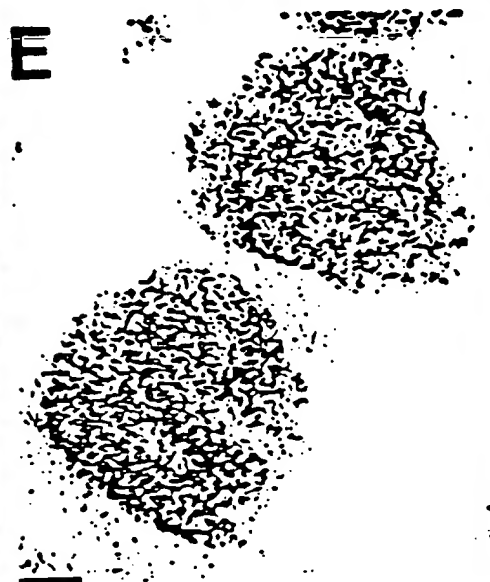
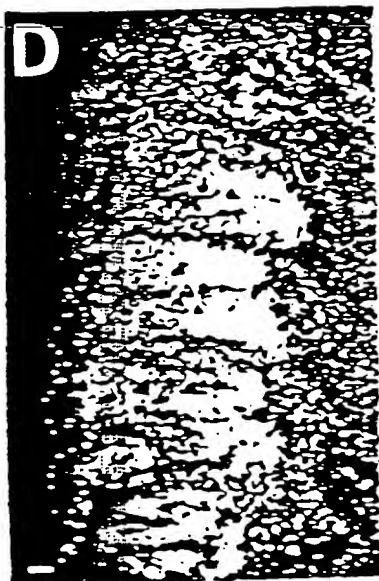
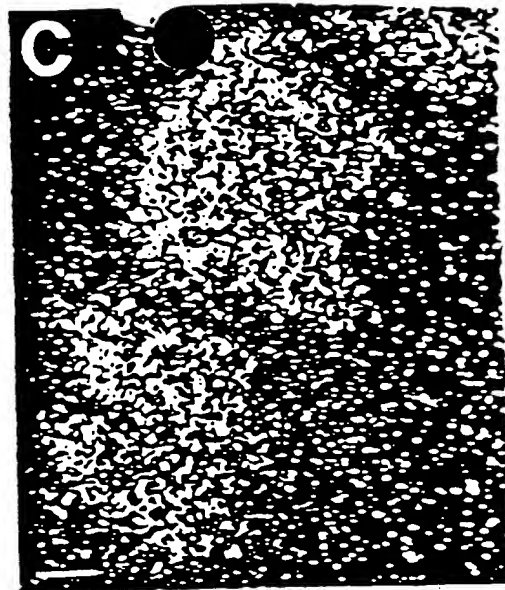
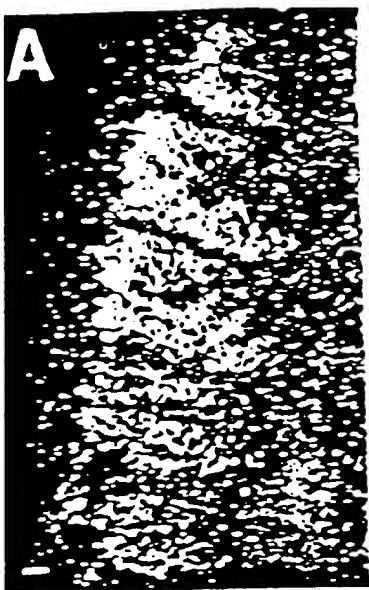


Figure 8

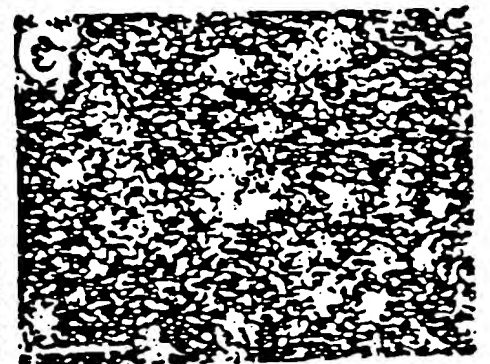
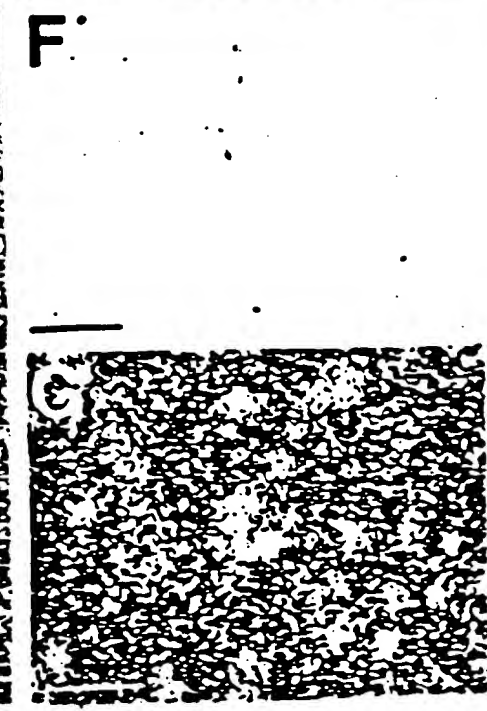
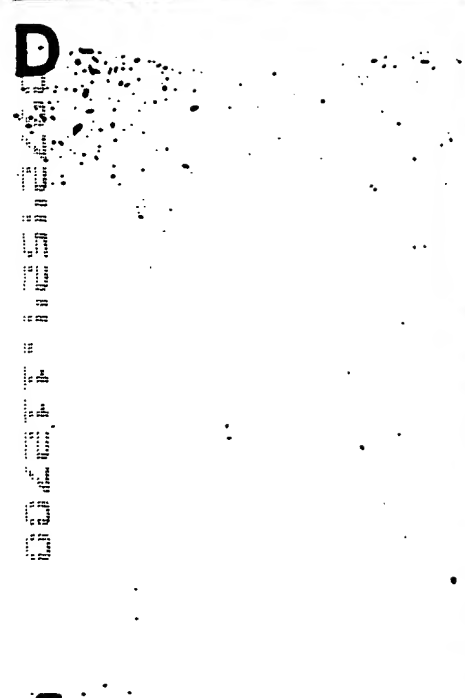
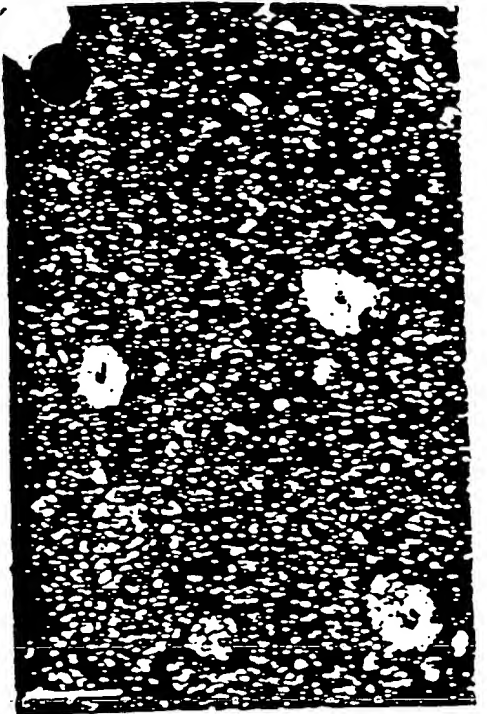
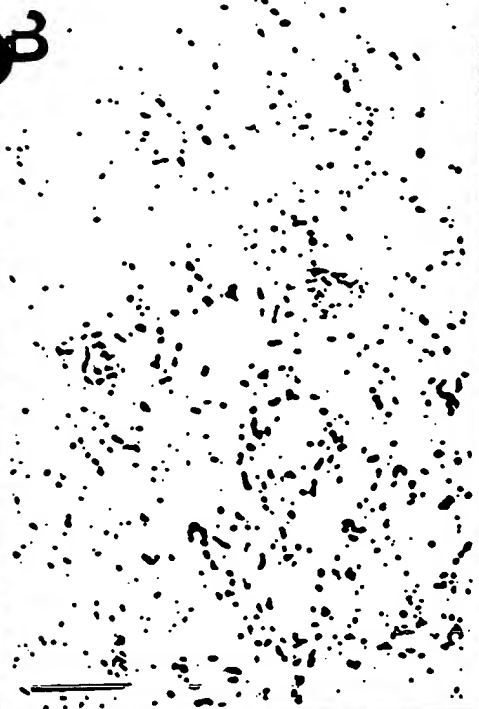
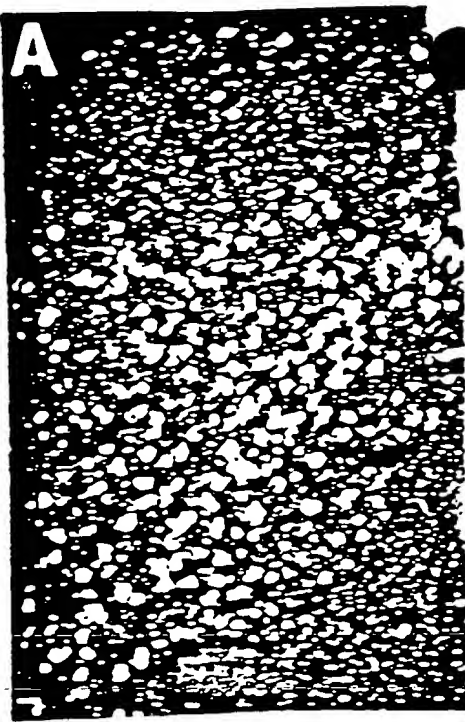
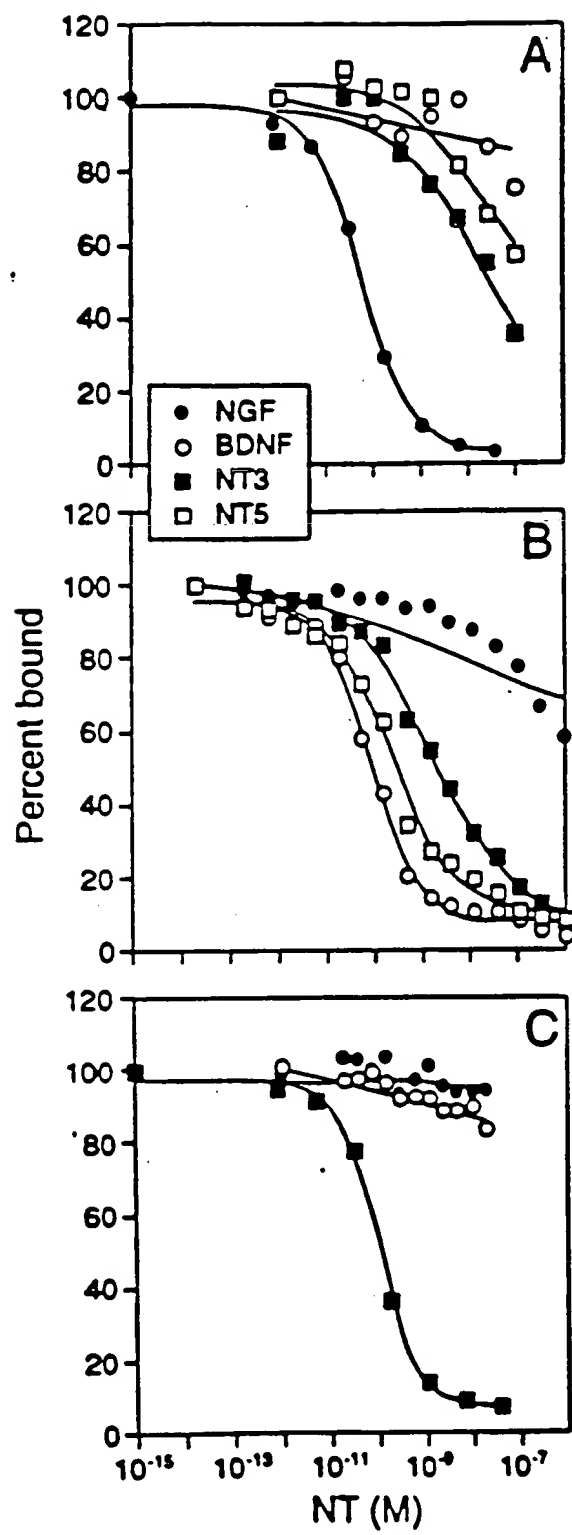


Figure 9

Figure 10



00221418512200

Figure 11

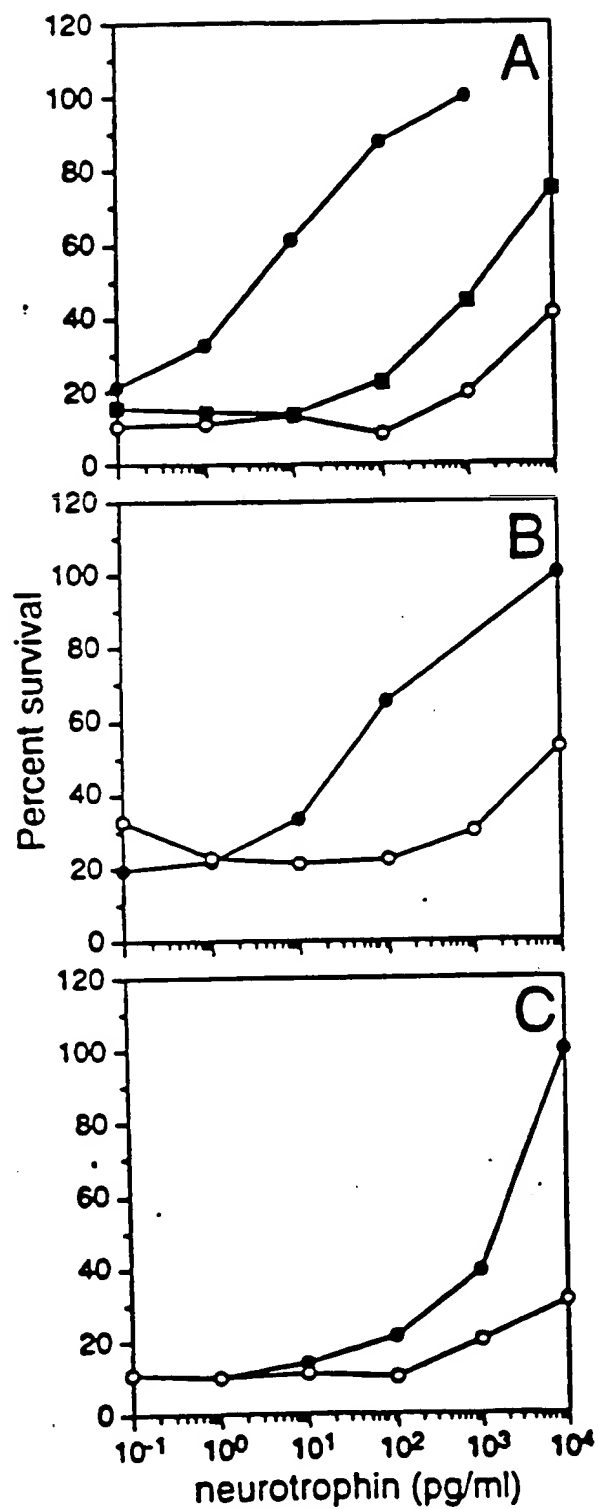
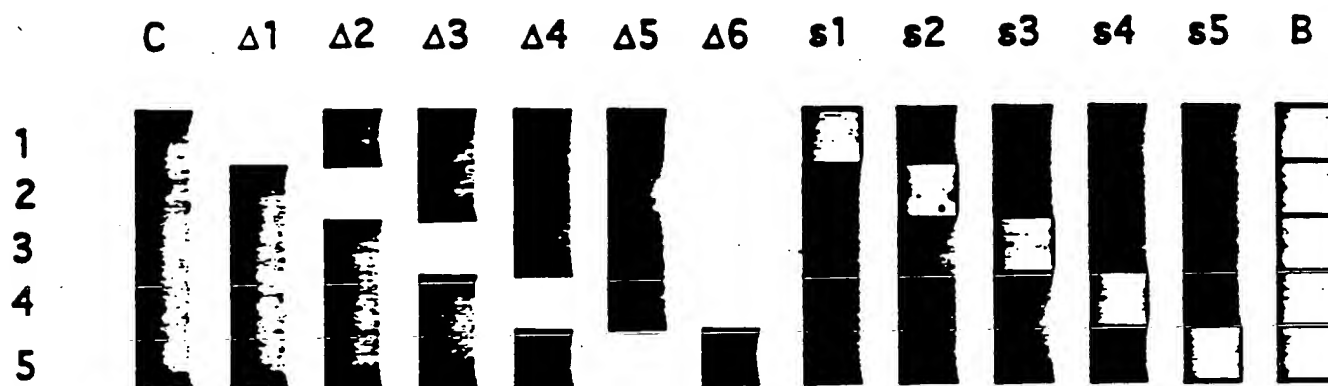
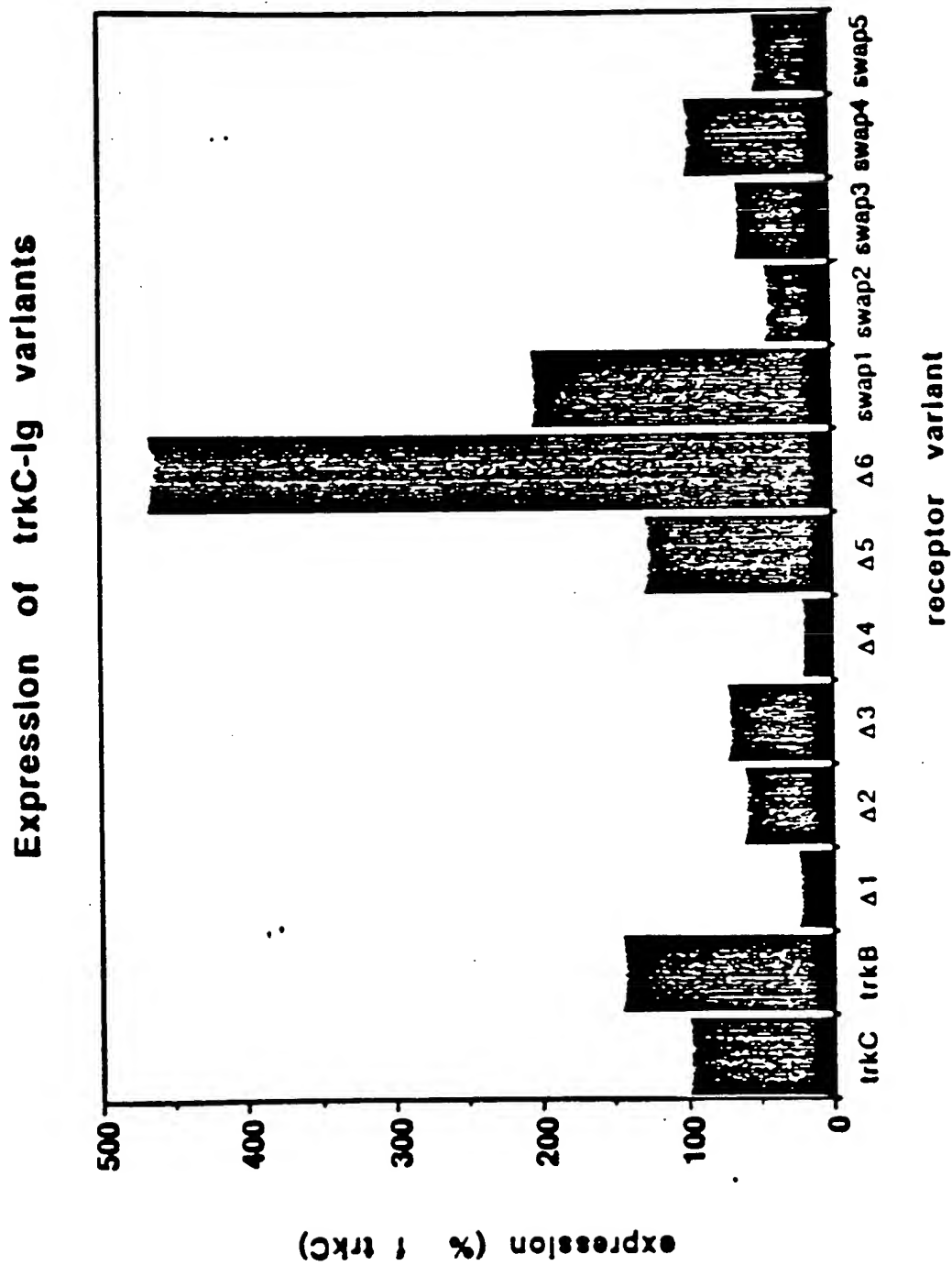


Figure 12

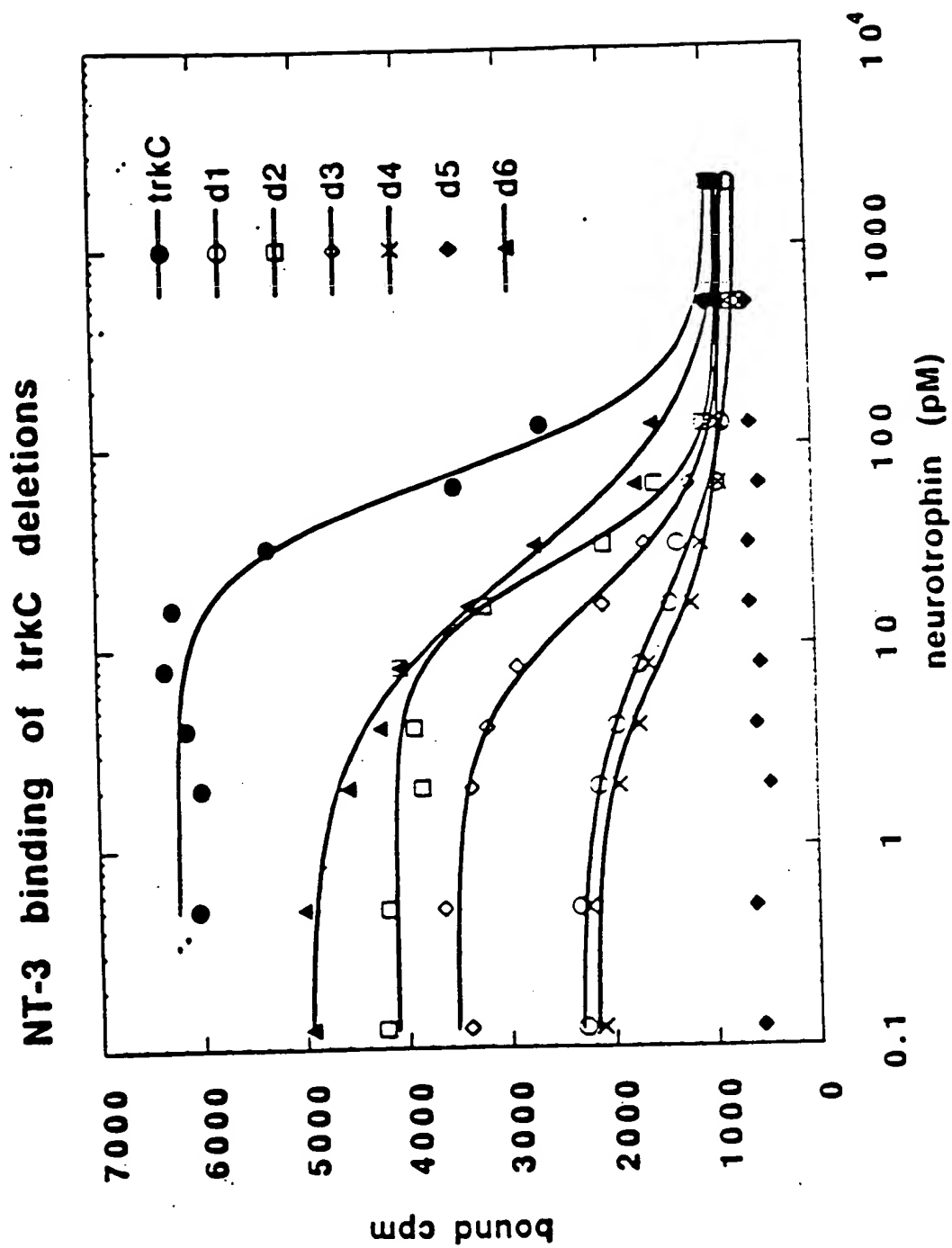


5' 3'

Figure 13



WYI m87A



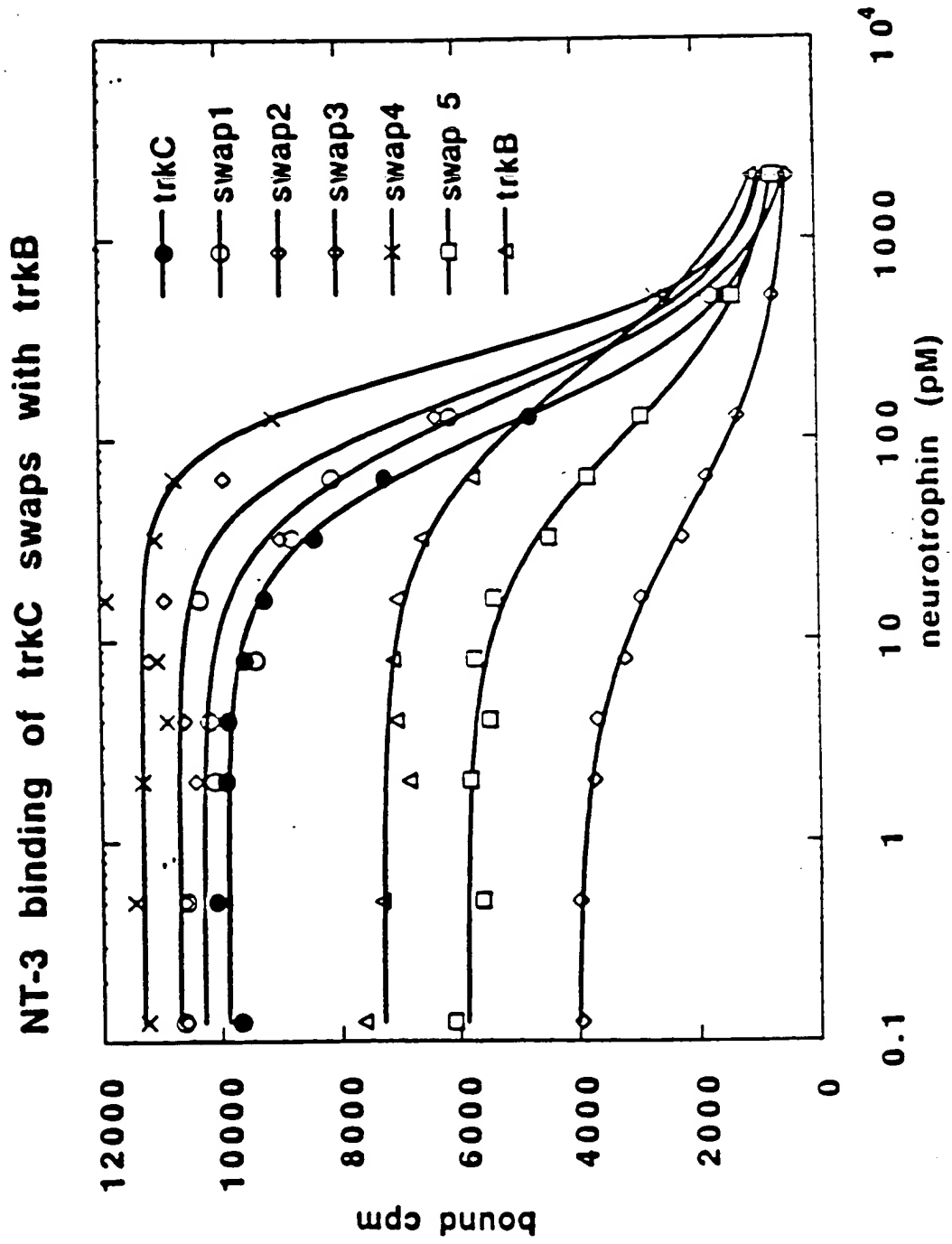
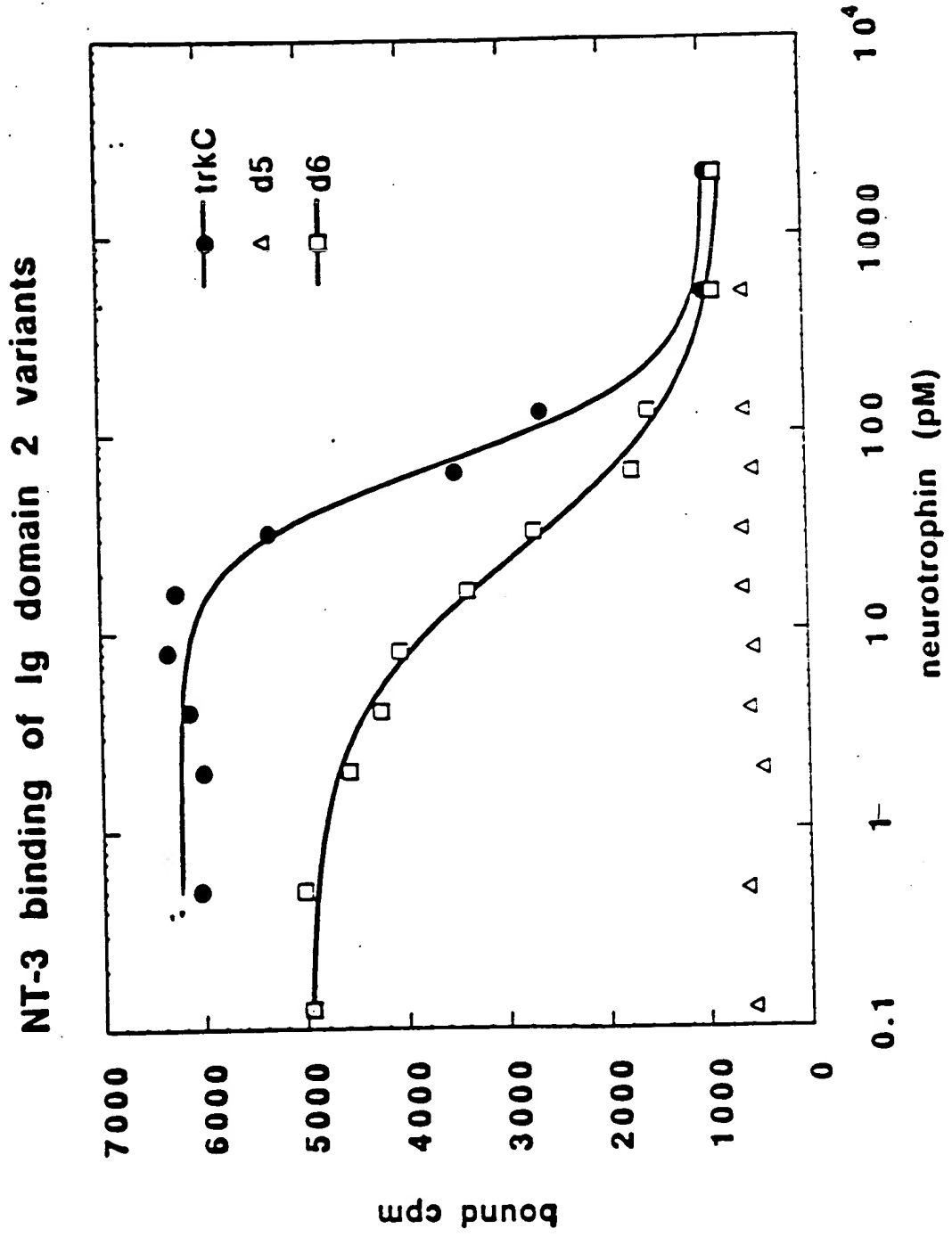


Figure 14c



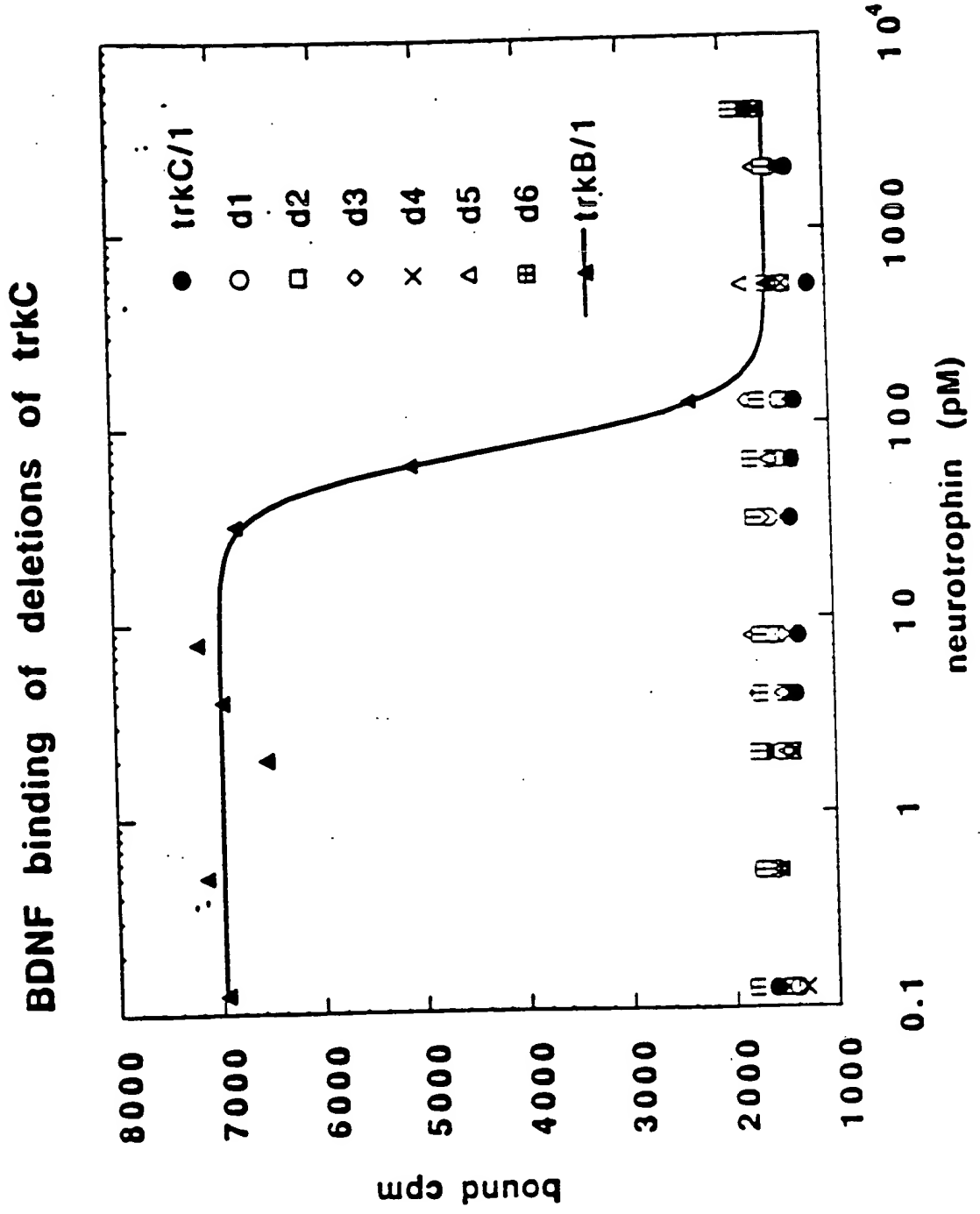
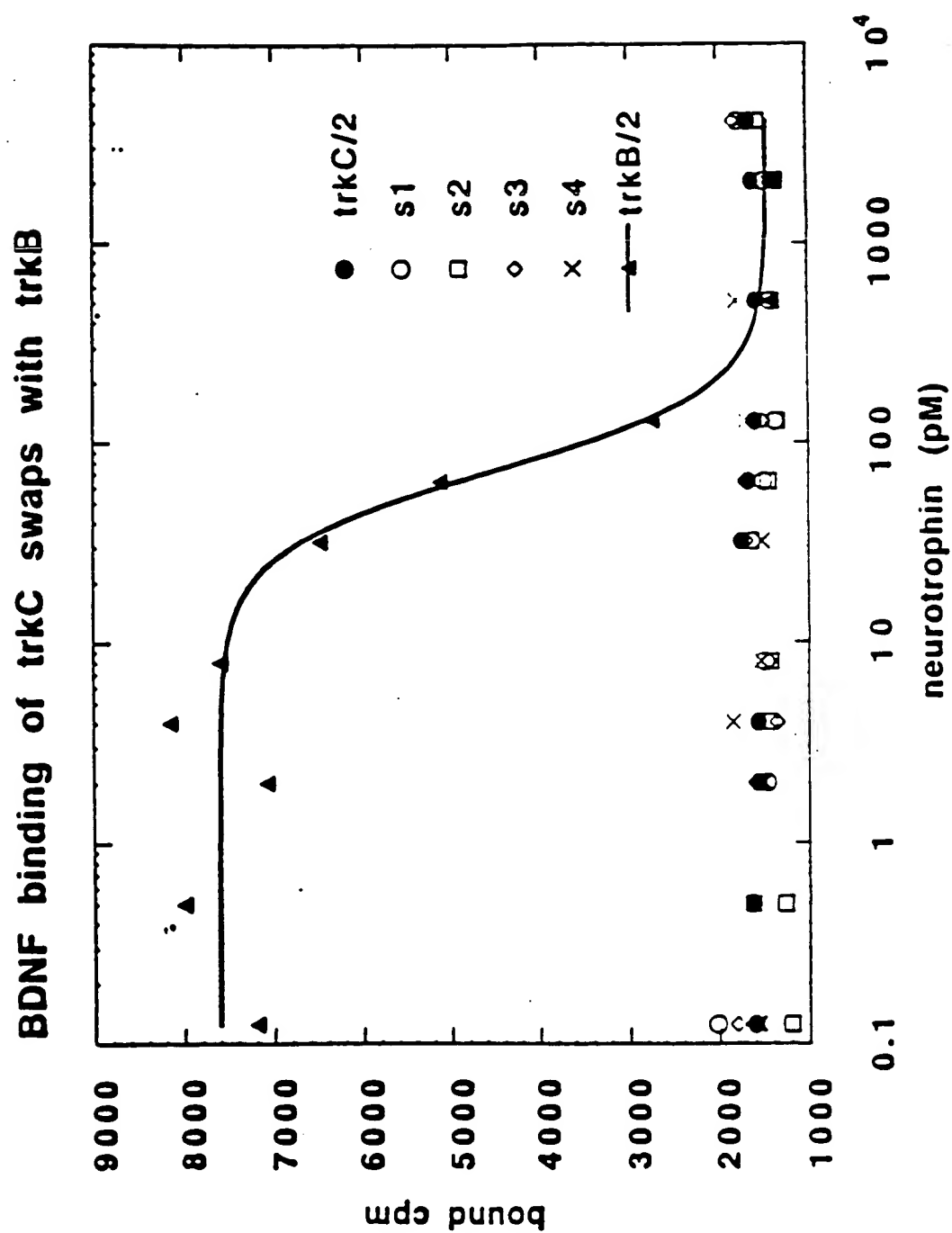
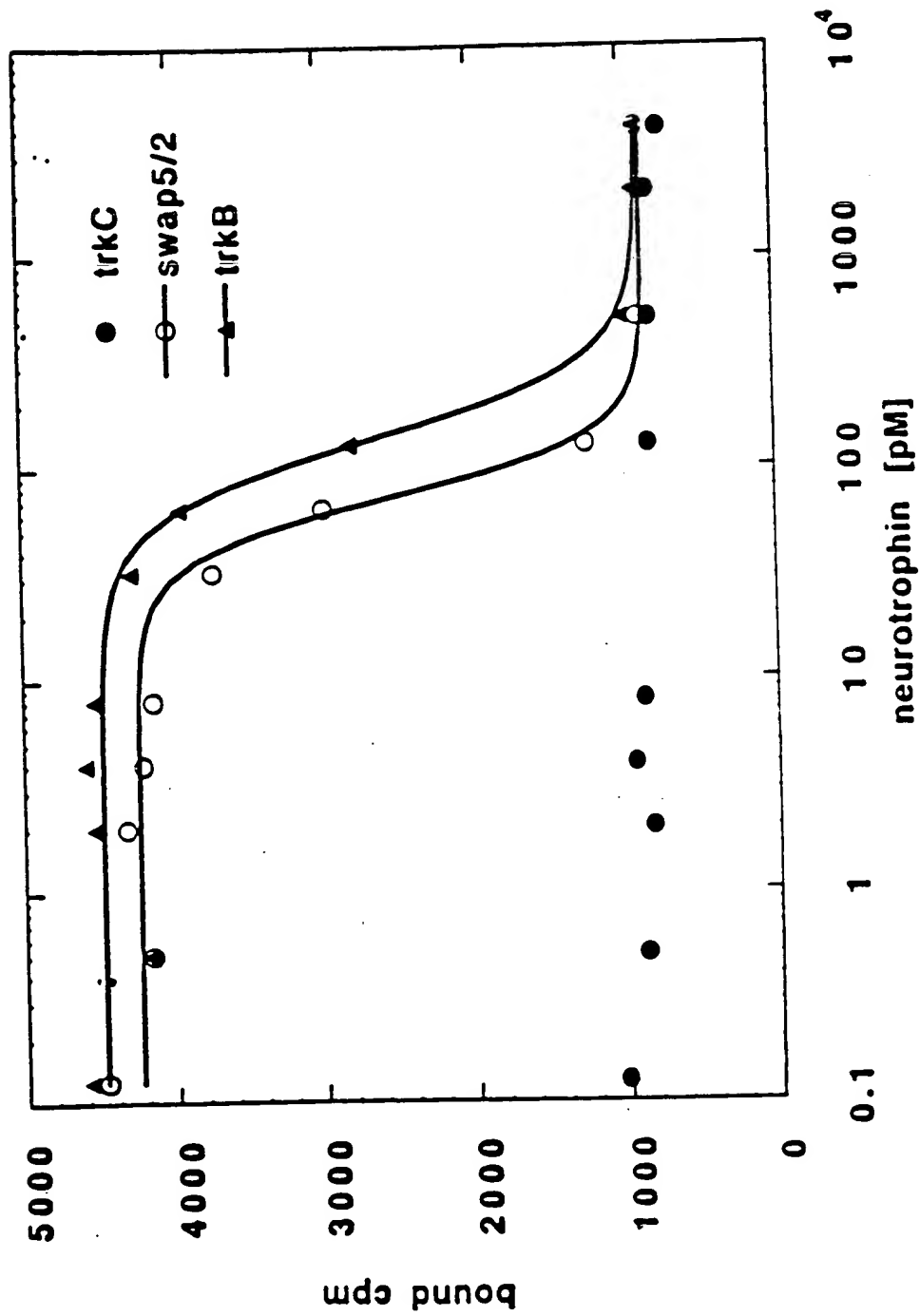


Figure 15A

Figure 15B



BDNF binding of Ig domain 2 swap



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-----Signal-----/-----Cysteine Rich I-----/
trkA 1 MLRGRRGQLGWHSWAAGPGSLAWLILAS---AGAAACPDACCPHGSSGLRCTR-DGALDSLHMLPG---AENLTETIENHO
trkB 1 ---MSWIRWHGPAMARINGFCWLVVGFW---AAAFACPTS-CKCSASRIWCSDPSPGIVAFPALEPHSVYD---PENLTETIANQK
trkC 1 ---MDVSL---CPAKCSFWRI-FLLGSWLDYVCSVLCPAN-CVCSKTEINCRPPDDGNL-FPLLEGQDSCHSNCHAMINITYDISAUSITSIHLENWR

-----Leucine Rich-----/-----Cysteine-----/
trkA 78 HLQHLLELDRLGLGELRLNLTIVKSGLRIVAPDAFHITPRLSRNLNLSFNALISLSMTVOGLSLOELVLSGNPLHWCSCALRWLQRWEEELGCVPEQKLOC
trkB 78 RLEIINEDDVEAYVGLRNLTIVDSGLKIVAKKATLKNKLNQHNITRNKLTSLRKHFRHLDELILVGNPFTCSDDIMWIKTLQE-AKSSPDQDLYC
trkC 90 SLHTLNAYDMELYTGLQKLTIKNSGLRSIQPRAFAKNPHLRYINLSSNRLTTLWOLFOTLSRELOLEQNFNCSDIRHMQLMQEOGEAKLNSQNYLC

Rich II-----/-----Immunoglobulin I-----/
trkA 178 HQGG---PLAHMPNASCGVPTLKVQVPNASVDVGGDVLRCQVEGRGLEQAGWILTELEQSATYHKS---GCLPSLGLTLANVTSDLNKKNLTCMAENL
trkB 177 LNESSKNIPLANLOTPNCGP SANLAAPNLTVLEEGKSLSCSVAGDPVPVPMYWDVGNLVS KHMNET---SHTQG-SLRITNISDDSGKQISCAENL
trkC 190 INADGSQLPLFRMNIISQCDPEISVSHVNLTVREGDNVITCNGSGSPLPDVDWIVTGLOSINTHOTNLMTNTHVHAINLTLVNVTSSENGFTLTCAENV

-----Immunoglobulin II-----/
trkA 271 VGRAEVSQVNVSPASVO-LHTAVEMHHNCIPFSDVCGPAPSLRWLFWGSLVNETSFITFELEPAANETVRHGCLRLNQPHTVNNGNITLLAAMPFGQ
trkB 272 VGEDQDSVNLTVHFAPITITFLESPTSDDHNCIPITVKGKPKPALQNTYNGATLWESKYICTKI--VTNHTETNGCLQDNPHTMNNGDTYTLIAKNEYGK
trkC 290 VQMSNASVALTVYPPRVVSLPEELALENCIEFVVRGNPPPTLHNLKNGOPLRESKIIHVEY--QEGEIS-EGCLIFNKPTHYNNGNITLIANKPLGT

-----Transmembrane-----/
trkA 370 ASASIMAAFM-----DNPF-----EF-NPEDPIPDNS-----TSGDPVEKKDET---F-GVSVAVGLAVFACFLSTLLIVNKKCGRRNKFGIN
trkB 370 DEKQISAHFMGWPCTDDGANPNYPDVIYEDYCTAANDIGDTTNRSEIPSTDVTDKTRGHLNVAVVVIASVVGFC-LIVMLFLL-KLARHSKFGMK
trkC 387 ANQTINGHFL-----KEPFEST-DNF-ILFDEVST-----PPITYTHKPEED---F-GVSIAGLAFAFVLLVVLVHINKYGRRSKFGMK

-----Juxta membrane-----/
trkA 446 RP-AVLAPEDGLAMSLHMTLGGSSLSPTG-KGCSGLOG-----HILEMPOYF-----SDACVHHIKKADIVLKWELGEGAFGRVFLAECNNLPEQD
trkB 446 GPASVISNDDDSASPLHHISNGSNTPSSEGGPDVAVIIGMTKIPVIEPNQYFGITNSQLKPDITVQHIKKNHIVLKRLEGEAGFGRVFLAECYNLCPED
trkC 446 GPVAVISGEEDSASPLHHINHGITTSSSLDAGPDVTVIGMTKIPVIEPNQYFGITNSQLKPDITVQHIKKNHIVLKRLEGEAGFGRVFLAECYNLSPTKD

-----Tyrosine Kinase-----/
trkA 532 KMLVAVKALKEASESARGQDFOREAELLTMLQHQHIVRFVGVCTEGRPLLMVFETMRHGDINRFLRSHGPDAKLLAGGEDV-APGPGLGQLLAVASQVAA
trkB 566 KILVAVKILKQASONARKQDFHREAELLTNLQHEHIVKFCVCGVEDPLIMVFETMKHGDINRFLRANGCPDAVLMAEGNPP---TELTQSOMLHIAQOIAA
trkC 566 KMLVAVKALKOPTLAARKQDFOREAELLTNLQHEHIVKFCVCGGDDPLIMVFETMKHGDINRFLRANGCPDAMI LVDGQPRQAKGELGLSOMLHIASQIAS

-----/
trkA 631 GMVYLASQHFVHRDLATRNCLVGGGLVVKIGDFGMSRDYSTDYIRVGGRTMLPIRHMPPESILYRKFTTESDVNSFGVVLWEIFTYKQOPWYQLSNTEA
trkB 663 GMVYLASQHFVHRDLATRNCLVGENLLVKIGDFGMSRDVSTDYIRVGGHTMLPIRHMPPESIMYRKFTTESDVNSLGVVLWEIFTYKQOPWYQLSNNEV
trkC 666 GMVYLASQHFVHRDLATRNCLVGANLLVKIGDFGMSRDVSTDYIRVGGHTMLPIRHMPPESIMYRKFTTESDVNSFGVVLWEIFTYKQOPWYQLSNTEV

-----/
trkA 731 IDCITQGRLELRPRACPEVYAIHRGCGWQREPQORHSIKDVHARLOALACAPPVYLDVLG
trkB 763 IECITQGRVLRPRPCQGEVYELMGCGWQREPMMHAKNKGITLIONLAKASPVYLDILG
trkC 780 IECITQGRVLRPRVCPKEVYDVMGCGWQREPQORLNKELYKILHARLOALATPIYLDILG

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Figure 16

Latency to Foot Withdrawal

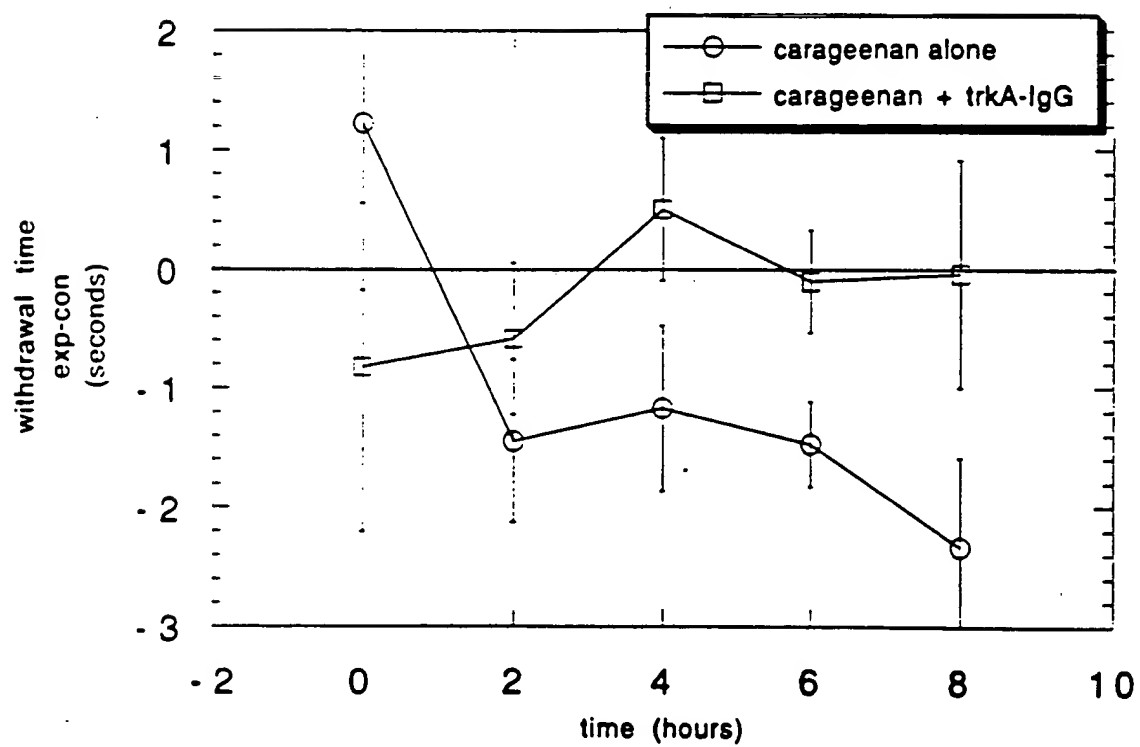


Figure 17

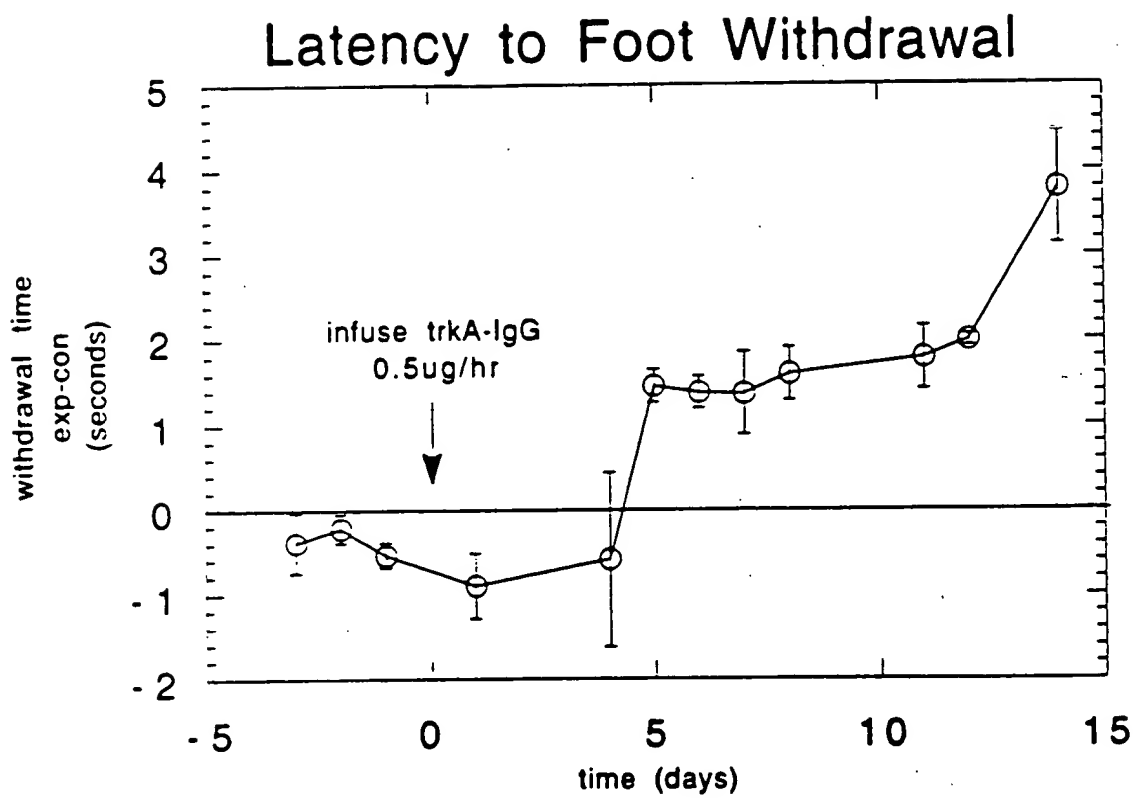


Figure 18